## AMENDMENTS TO THE CLAIMS

Please cancel claim 1.

2. (currently amended) The method of claim 1 wherein testing the multi-device enclosure
further comprises: A method for testing a multi-device enclosure that contains multiple
devices and at least one processor, the method comprising:
controlling a number of bypass circuits to bypass a number of external
communications medium connectors to isolate the multi-device enclosure from an
external communications medium;
internally testing the multi-device enclosure by running a self-test routine on an
internal processor by
controlling a number of bypass circuits to isolate the devices from an
internal communications medium;
testing the internal communications medium;
when the internal communications medium passes the testing,
for each device,
controlling a bypass circuit to connect the device to the
internal communications medium,
testing the device, and
when the device fails testing,
controlling a bypass circuit to disconnect the device
from the internal communications medium, and
returning an indication that the testing of the multi-device
enclosure has succeeded; and
when the internal communications medium fails the testing,
returning an indication that the testing of the multi-device
enclosure has failed <u>; and</u>
when the multi-device enclosure passes the testing,
controlling a number of bypass circuits to connect the number of external
communications medium connectors to the external communications medium.

- 3. (original) The method of claim 2 wherein the external communications medium and the internal communications medium are both portions of a fibre channel arbitrated loop.
- 4. (original) The method of claim 3 wherein controlling a number of bypass circuits to bypass a number of external communications medium connectors to isolate the multi-device enclosure from an external communications medium further includes:

controlling a bypass circuit to bypass a primary external communications medium connector to isolate the multi-device enclosure from the upstream portion of the fibre channel arbitrated loop; and

controlling a bypass circuit to bypass an expansion external communications medium connector to isolate the multi-device enclosure from the downstream portion of the fibre channel arbitrated loop.

5. (original) The method of claim 3 wherein the multi-device enclosure may be connected to two fibre channel arbitrated loops and wherein controlling a number of bypass circuits to bypass a number of external communications medium connectors to isolate the multi-device enclosure from an external communications medium further includes:

controlling two bypass circuits to bypass two primary external communications medium connectors to isolate the multi-device enclosure from the upstream portions of two fibre channel arbitrated loops; and

controlling two bypass circuits to bypass two expansion external communications medium connectors to isolate the multi-device enclosure from the downstream portions of two fibre channel arbitrated loops.

- 6. (original) The method of claim 3 wherein testing the internal communications medium includes sending a loop initialization primitive around the internal portion of the fibre channel arbitrated loop.
- 7. (original) The method of claim 3 wherein testing a device includes:

sending a loop initialization primitive around the internal portion of the fibre channel arbitrated loop.

8. (original) The method of claim 7 wherein testing a device further includes:

issuing commands to the device to cause the device to undergo a self-test and to solicit information from the device about the device.

- 9. (original) The method of claim 8 wherein the commands issued to the device are small computer systems interconnect enclosure services commands.
- 10. (original) A method for testing a multi-device enclosure that contains multiple devices, the method comprising:

controlling a number of bypass circuits to isolate the devices from an internal communications medium;

when the internal communications medium passes the testing,

for each device,

controlling a bypass circuit to connect the device to the internal communications medium,

testing the device, and

when the device fails testing,

controlling a bypass circuit to disconnect the device from the internal communications medium, and

returning an indication that the testing of the multi-device enclosure has succeeded; and

when the internal communications medium fails the testing,

returning an indication that the testing of the multi-device enclosure has failed.

11. (original) The method of claim 10 further including:

when a device malfunctions during operation of the multi-device enclosure,

controlling a bypass circuit to disconnect the device from the internal communications medium.

Please cancel claim 12.

13. (currently amended) The self-testing multi-device enclosure of claim 12 wherein the
internal communications medium and the external communications medium are portions
of a fibre channel arbitrated loop. A self-testing multi-device enclosure comprising:
an internal fibre-channel-arbitrated-loop communications medium;
a number of devices interconnected by the fibre-channel-arbitrated-loop internal
communications medium;
a number of connectors that connect the multi-device enclosure to an external
fibre-channel-arbitrated-loop communications medium;
bypass circuits that can be controlled to isolate devices from, and connect devices
to, the internal fibre-channel-arbitrated-loop communications medium;
bypass circuits that can be controlled to isolate connectors from, and connect
connectors to, the external fibre-channel-arbitrated-loop communications medium;
a processor; and
a self-test routine that runs on the processor to test the internal fibre-channel-
arbitrated-loop communications medium and the number of devices and to control bypass
circuits to isolate the multi-device enclosure during self-testing from the external fibre-
channel-arbitrated-loop communications medium and to isolate the devices from the
internal fibre-channel-arbitrated-loop communications medium.

- 14. (original) The self-testing multi-device enclosure of claim 13 wherein the number of devices include devices that exchange data and control information with other devices connected to the fibre channel arbitrated loop.
- 15. (original) The self-testing multi-device enclosure of claim 14 wherein the self-test routine

controls a number of bypass circuits to bypass a number of connectors to isolate the multi-device enclosure from the external communications medium;

tests the multi-device enclosure; and

when the multi-device enclosure passes the testing,

controls a number of bypass circuits to connect the number of connectors to the external communications medium.

16. (original) The self-testing multi-device enclosure of claim 15 wherein, after isolating the multi-device enclosure from the external communications medium, the self-test routine tests the multi-device enclosure by:

controlling a number of bypass circuits to isolate the devices from the internal communications medium;

testing the internal communications medium;

when the internal communications medium passes the testing,

for each device,

controlling a bypass circuit to connect the device to the internal communications medium,

testing the device, and

when the device fails testing,

controlling a bypass circuit to disconnect the device from the internal communications medium, and

returning an indication that the testing of the multi-device enclosure has succeeded; and

when the internal communications medium fails the testing,

returning an indication that the testing of the multi-device enclosure has failed.

17. (original) The self-testing multi-device enclosure of claim 16 wherein controlling a number of bypass circuits to bypass a number of external communications medium connectors to isolate the multi-device enclosure from an external communications medium further includes:

controlling a bypass circuit to bypass a primary external communications medium connector to isolate the multi-device enclosure from the upstream portion of the fibre channel arbitrated loop; and

controlling a bypass circuit to bypass an expansion external communications medium connector to isolate the multi-device enclosure from the downstream portion of the fibre channel arbitrated loop.

- 18. (original) The self-testing multi-device enclosure of claim 17 wherein testing the internal communications medium includes sending a loop initialization primitive around the internal portion of the fibre channel arbitrated loop.
- 19. (original) The self-testing multi-device enclosure of claim 17 wherein testing a device includes:

sending a loop initialization primitive around the internal portion of the fibre channel arbitrated loop.

20. (original) The self-testing multi-device enclosure of claim 19 wherein testing a device further includes:

issuing commands to the device to cause the device to undergo a self-test and to solicit information from the device about the device.